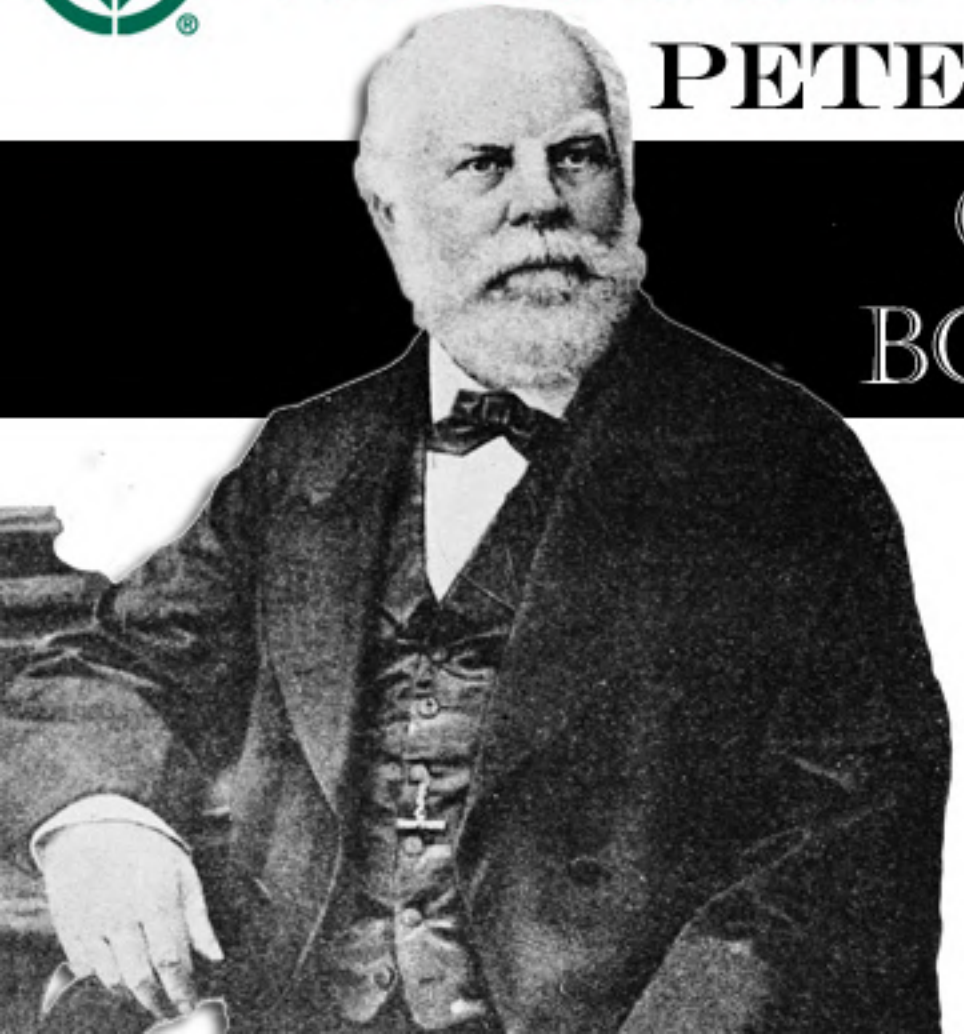
Missouri Botanical Garden

Peter H. Raven Library

George Engelmann Botanical Notebooks



Pagination Note:
Since many of the items lack a specific page number, the page number displayed online refers to the sequentially created number each item was given upon cataloging the materials.

Pancaspidæ

Op. stricta (fide Forsayeth Herbal) Joints obovate very
1 angular, spines few, only occasionally on
upper edge of leaf-joints not usually over 6"
by 4. Leaf-tubercles thick short &
recurved. Half ripe fruit fully tapered, hole at
top rather central. Half ripe fruit
distinct from Op stricta

Op ~~stricta~~? (stricta affinis). Joints less angled than in
2 stricta, & also taper more towards upper end, ~~i.e.~~
~~less obovate~~, leaves more patulous, half as long again
Fruit more obovate than Op stricta. Fruit & ovary
half ripe, but this could not alter leaves, so it
distinct from Op stricta

Op cochinellifera. Can be at once known
by exserted style & stamens. Half ripe
3 fruit with very deep hole at top, spineless!
leaves recurved. usually almost horizontal
ovary short roundish

Op elongata Hort. Plant general appearance of
Op. cochinillifera, few large spines on lower joints
4 leaves not or hardly patulous, rather slight
hole at top of half ripe fruit, ovary very
long & slender, very much stamens & style included,

Op Microdasys. Tehm. Spines yellow, light green
3- Joints spines exceedingly numerous short small
bristle like

6 Op. unfida spines red, otherwise much like O. microdasys

7 Op. crassa? / glauca? / very glaucous, joints pounded
leaves very thick, spine still a small white spine nearly
½ in long which usually disappears when joint gets older

8 Op. Ficus-indica? ~~dark green~~ spines on older branches
large about 1¼ ft long by 6 in wide, less pulvinus
moderate. Fruit very large tapering at base
good many spines occasionally

9. Much like #8. Joints ~~large~~ greater in diameter,
shorter & less tapering good many, spines occasionally

por Op. tomentosa, less joints & very tomentose

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GEORGE ENGELMANN PAPERS

July 20 '76

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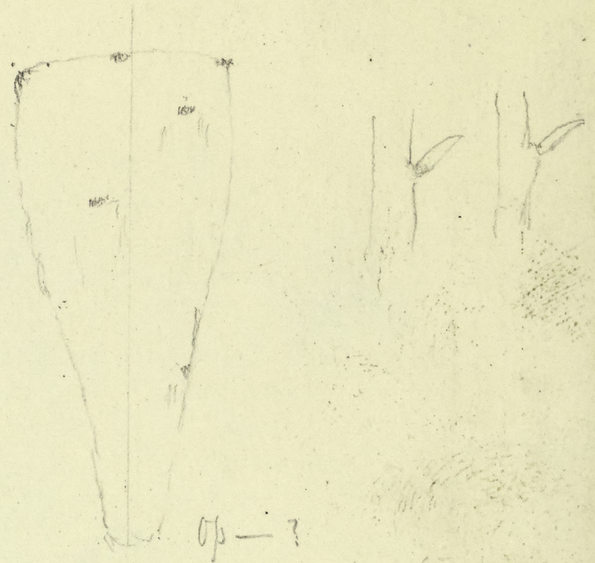
Ops. stricta.
Half ripe.



Ops — ?
near stricta
ripe fruit

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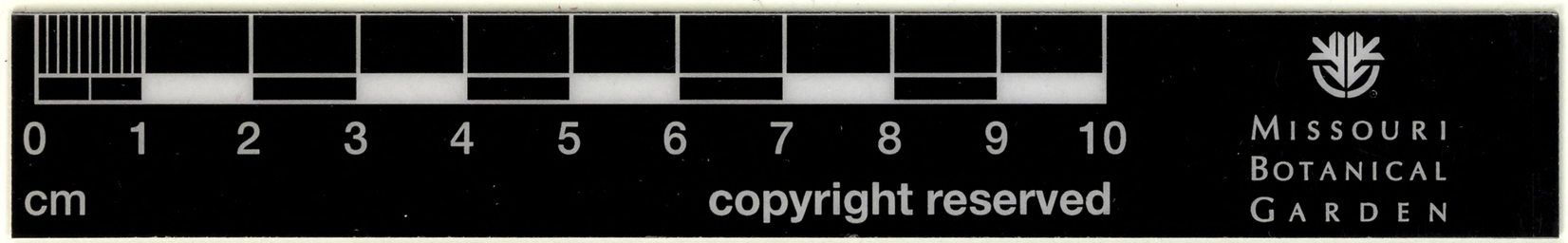

Op. brasiliensis

Op. brasiliensis. Stigmas 6. ~~white~~
Ovary little over $\frac{6}{8}$ in long. Petals about
$\frac{7}{8}$ in long. sulphur yell. Sepals yellow (!)
Agrees well with D Cand. prodr. discript.
Style whitish, Unopend flowers are 19/6/76
very peculiarly from imbrication of petals.
vide fig. in B.M. our spec: Torosa branchsonne sp.

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Opuntia cochinillifera h. mill.
ait. Hortus Kew. ed 2. v. 3. p. 479 (non O. coccinellifera
9 DCand. Plantis Grapes.) - Flowers of
two plants from our garden
compare well with fig. in
B. Mag. 2741 - 2742 - & is correct
according to engl^n diag. but the
stamens do not seem united below? -

Plant erect joints obovate, nearly un-
-armed; petals connivent; stamens &
style exserted.

alp 2 13/76.

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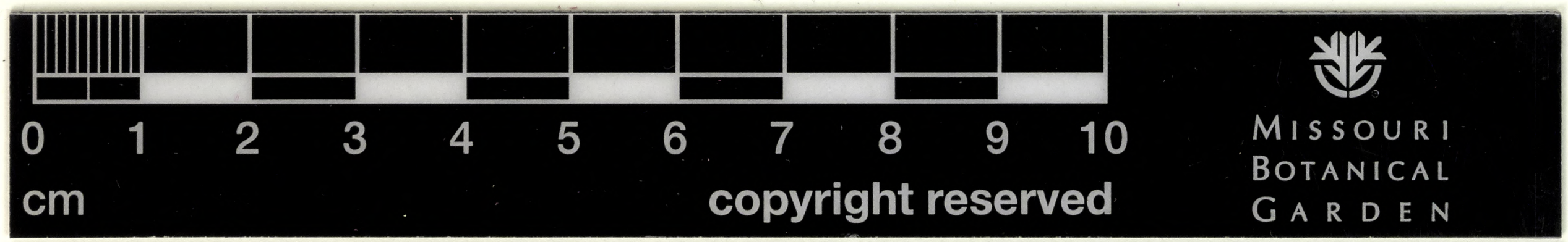

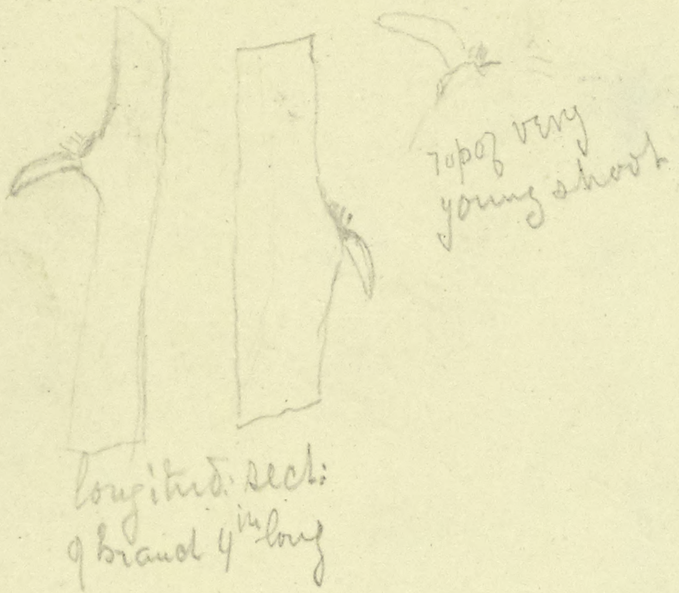

Op. Cochinellifera
Young Plt July 20/76

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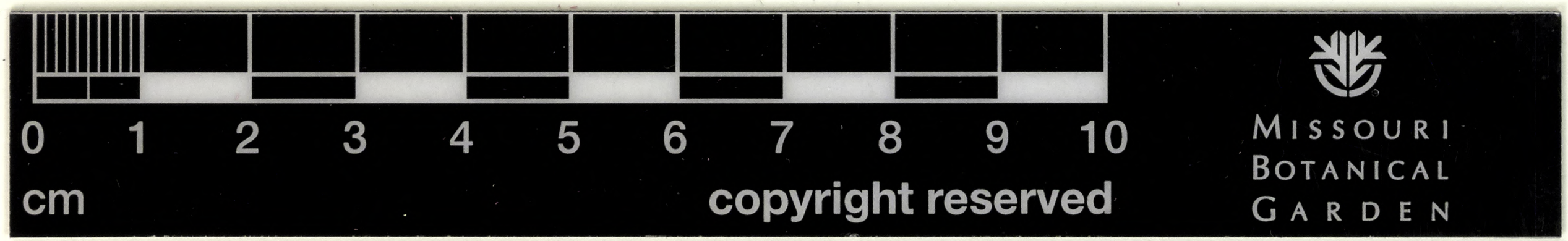

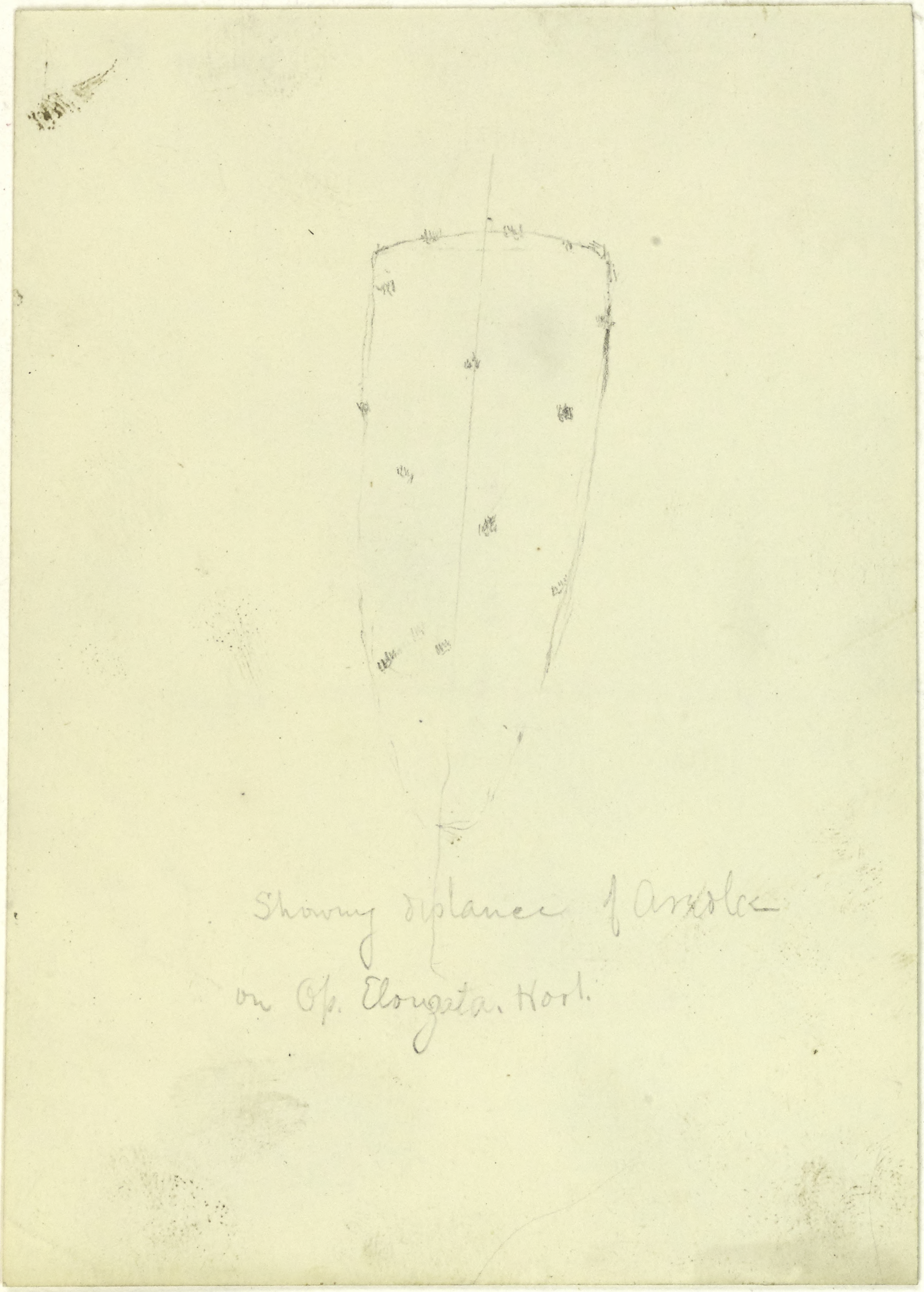

Showing displacement of Arteloc

on Op. Elongata. Hort.

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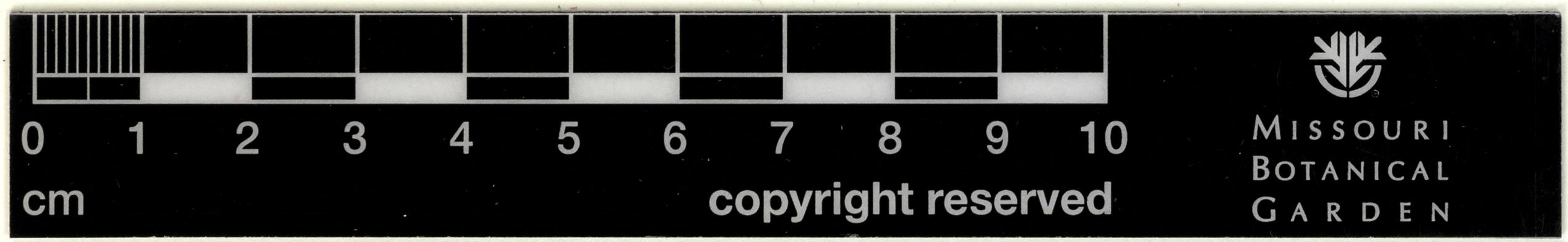

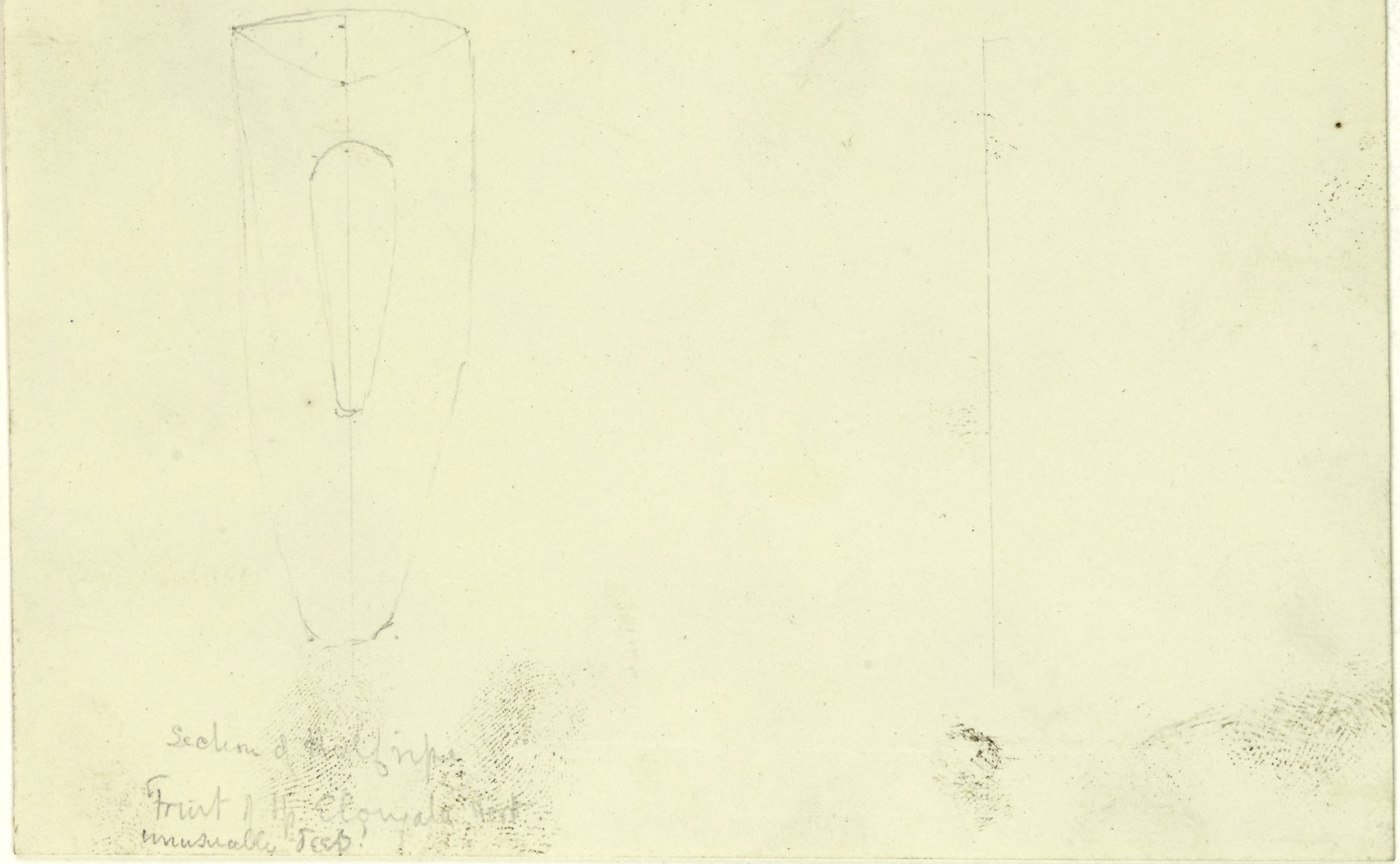

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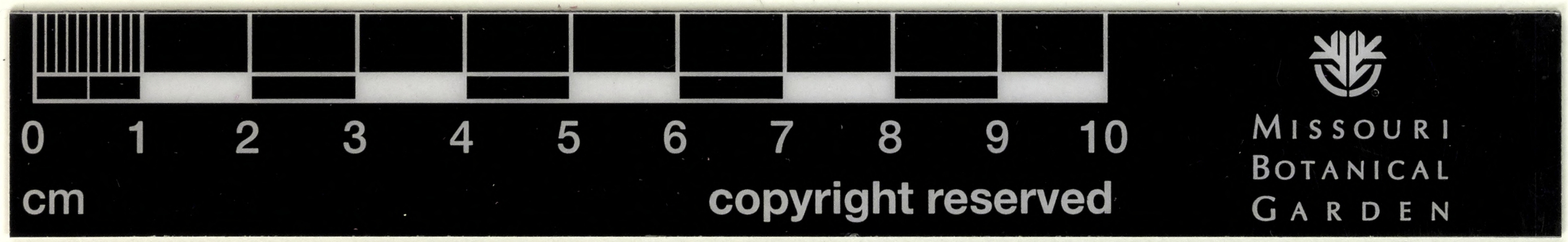

Opuntia ——? (Elongata Hort Bot. Mo)

Plant large erect, general aspect of Op. coccinellifera. almost spineless, few large ones on brown & old joints, largest of them about 1 inch long somewhat flattened & often slightly torhouse, solitary, light horn color at tip & light brown. In fully developed young & perfect spines the tip seems light horny. yell. color for about 1/8 in. rest ash color & slightly annulated with reddish, little above base dark reddish tip & green at extreme base, hair at base of these spines over 1/8 in long. Ovary 2-2 1/8 inch long, tapering, Areol few & far apart. not tuberculate (extremely slight one for the areol) with inner of ovary very level & smooth. Petals 4 rows, inner reddish tinted with green at centre & darker red at tip. rather ~~entire~~ crulate. 1 1/2 - 1 3/8 inch long. Style enlarged at base, spindle shaped, while 6/8 in long. Stigmas light green about 8/10 in long light green, 8-9 cleft. Cavity of ovary 9/16 in long. This is often designated by Shroded as Op. nopalea. Longest stamens little shorter or as long as style. Diameter of ovary at top 5/8 - 11/16 inch. ~~Long~~.

July 16 1876

July 16 | 76 2 specm.

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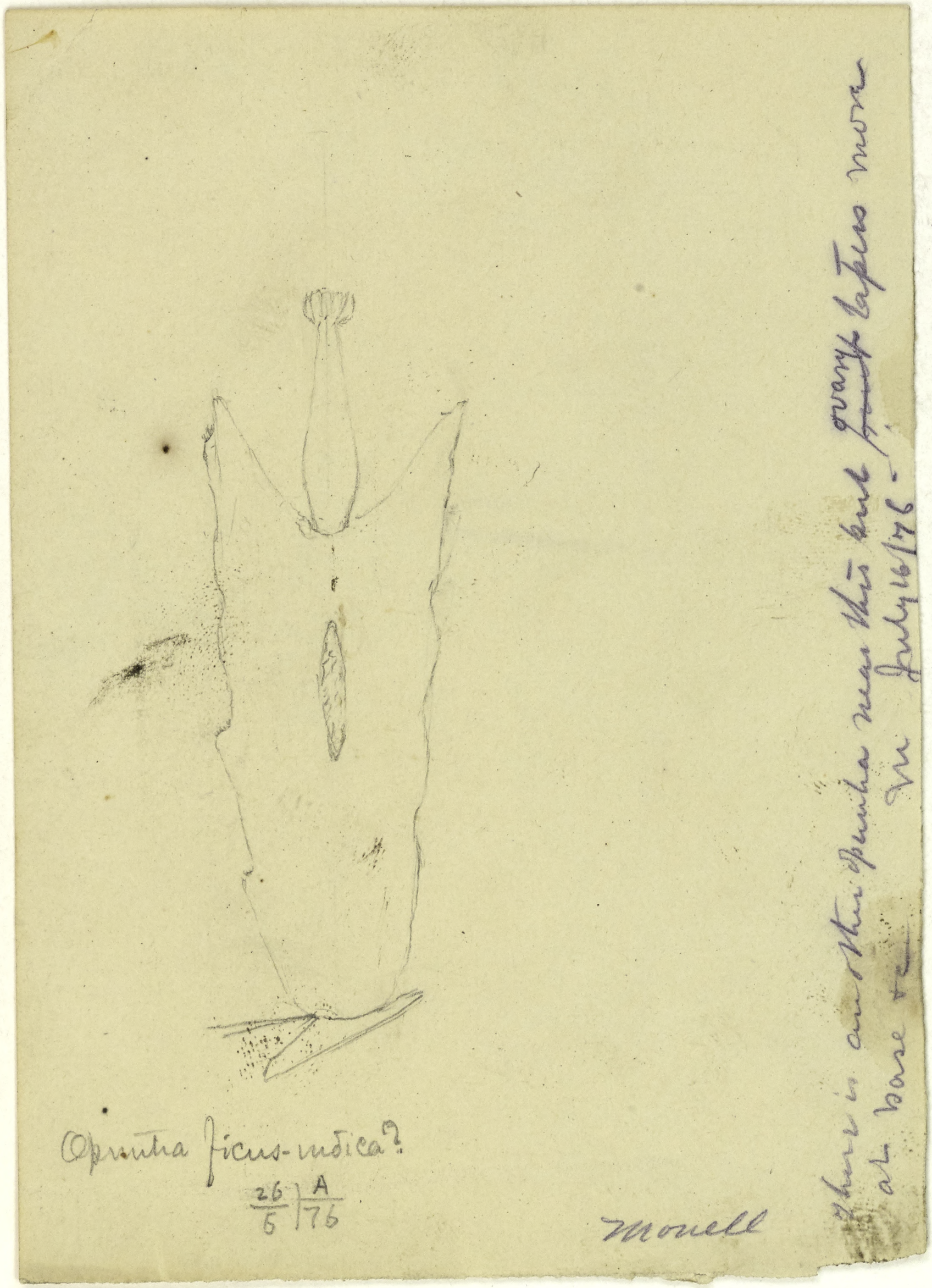

Opuntia ficus-indica?

26/5 | A/76

Morrell

Flowers in cluster at base of fruit

Near Mier, Mexico, Nuevo Leon

July 16/76 -

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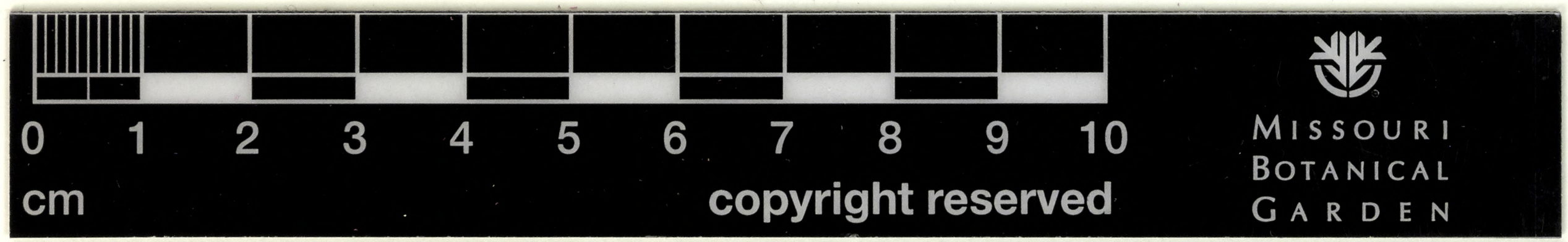
Opuntia —— ? - op. ficus-indica (fide Earary)

Large joints paucispinous. ovary tubercul-
=ato-imbricated. 2½ in long. spinous. Petals
Golden yellow, average about 1½ in long
Pistils 1 in long. Stigmas 9 (8?) many
Stamens reaching to ~~mid~~ top of Style.
Ovary, locula very long & narrow nearly ⅝ in long
& hardly ⅛ in broad. Mammae areolar?
on fruit about 7/16 in apart. Out side dark
green. There is an op: much resembling
it (in Hort) which tapers to base of ovary.

Op. ficus-indica ??

See section, Desert 26/A 6/76



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Heuchera cylindrica, Hook. Fl. Bor. Am.

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Opuntia grandis.

Flowers, Ovary 1 in long upper part of a glaucous blush-red greenish at base, tuberculated or imbricated. Petals all red, bristle pointed subulate little less than ½ inch long. Receptacle about ⅜ in deep reddish. Pistil swelled about middle, very slight reddish at base, whitish at sides & little brown-ish at upper part, about ⅜ in long. Stamens with filaments scarlet at upper ¾ in. upper ones reaching far above the stigma; about as long as style. Stigma apparently only two cleft, whitish very small & pointed. Cavity of ovary ⅜ in long & about as much below base of style. Full? ovules. (vide Engl^m Cact. of Bound. p. 46)

Sepals bright? scarlet & petals ditto Stamens about as long as petals; belongs to Dr. Engl^m's "Mentopuntia"

about ½ inch

Petal

Scale rather larger than nature not very accurate since it was drawn from a flower cut two days before

July 16/c 76
Itawan.

Monell

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Sp. Megacantha?
Fr. 1

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Op. Salm-Dyck

Young lvs of Op. Salm-Dyck.
In the young leaf there are
1-2 large spines which are
light brown beneath + dark
for the upper half - but with
light brown at extreme tip.
From a spec. tabled by Fendler
in Mo. B. G. + dated 1859. - M. 12/876
These spines are short + thick
as represented in sketch.

Rec'd small pot + inclosed
with it + 2 other cacti
from Fendler, for an Opuntia

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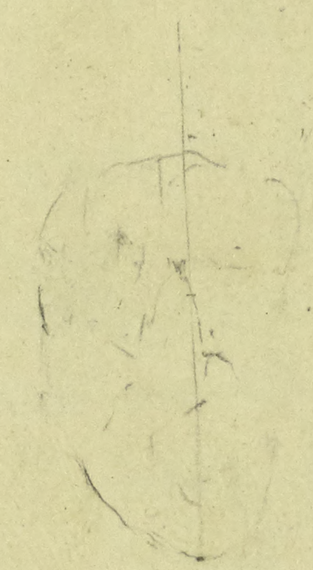

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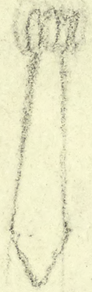
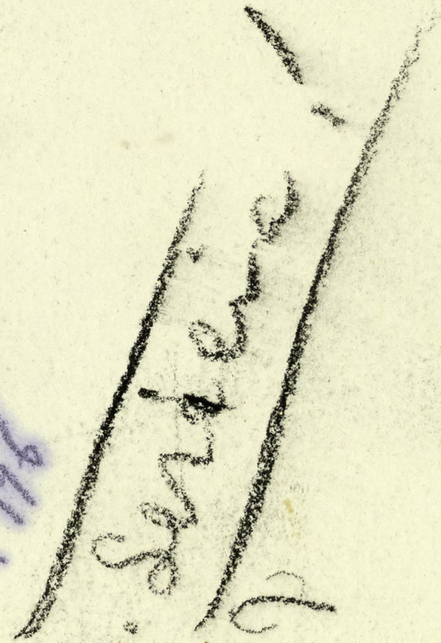


Sp. dicoccata
Trab. Soc. (1904).
Mexico
Oct 10/11

(not dicoccata
Pringle 8192)

Probably a Cereus
see Note of July 16/12



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C58C.

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Opuntia sericea
Style 6-8 cleft. Petals
sulphur yellow tinged with
red at centre. 2 inner petals
with a slender bristle point.
The sketch labeled O. diedrmata

9 Feb 10/76 - refers to this
plant. but in spite: before me
Ovary tapers much more, Style
is much slenderer, style ~~yellow~~ white
Stigmas yellow
Plant is in short: under
name of Op. diedrmata

July 10/a/76

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seed

op. tomentosa 15/6/76

Opuntia tomentosa (M.B.G.)

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Opuntia (Tomentosa): Joints ~~Spines on old branches often none. or usually but one. short~~ ovate-lat
Ovary 1½ long, deeply imbricated. light green, tomentose,
Sepals green with few spines between them & the
petals, Plats as long as ovary (emarginate) scarlet with red shade (~~Sc~~)
into yellowish (especially innermost) towards margin
Style bright scarlet - six stigmas, over cavity of ovary

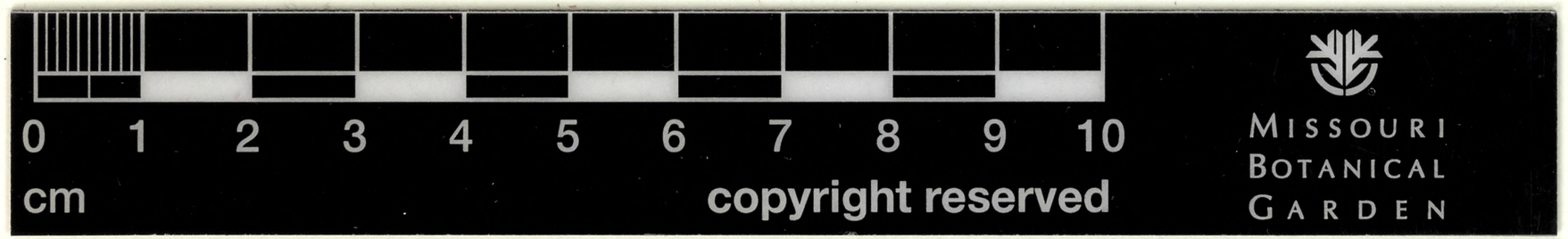
June 15 1873.

O. tomentosa Hort Bot. Mo.

~~Sketch~~

vide drawing

Early flowers by
very tomentose joints
style scarlet, stigmas
yellow. 6-7 segments.
July 1876.



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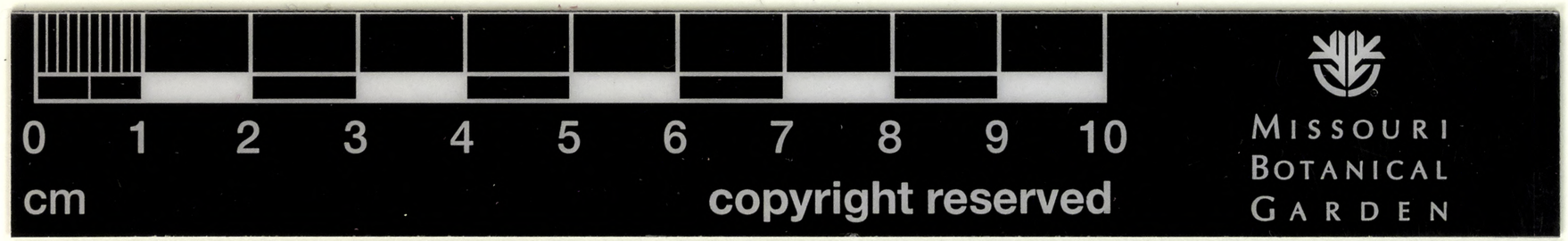


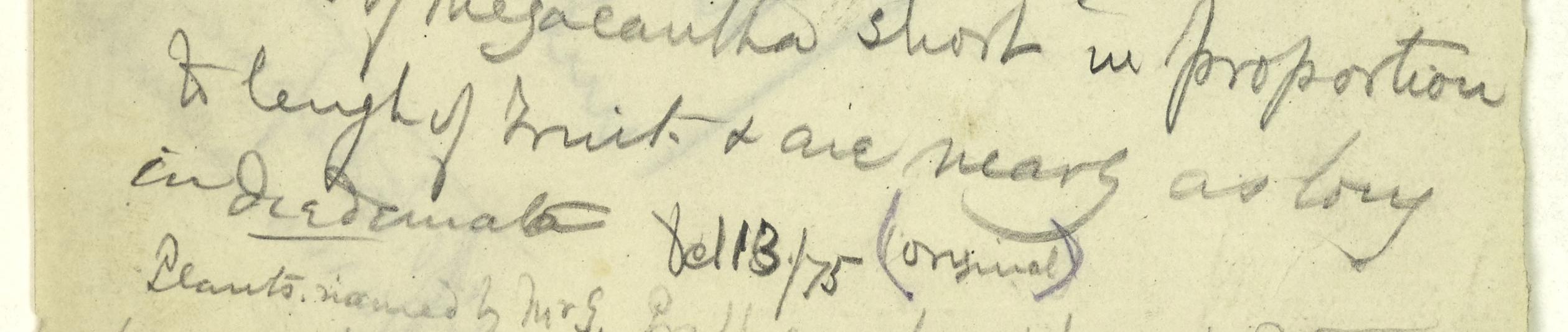
O. Megacantha?

Megacantha. ovary (or fruit while in flower) little over two mi long. Long & narrow as compared with many others.

Petals flesh ½ as long again as d. Rudis & marked with deep reddish tinge, ground color is yellow. Style usually 6 & 7 cleft & placed in or receptacle, Stamens little over half as long as filament. Easily distinguished from flowers of fruit or ovary & by Petals being more tinged with red than in O. Rudis Excluseve of other characters of Plant the Petals of Megacantha short in proportion to length of fruit & are nearly as long in O. Rudis

Del 18/75 (original)

Plants. raised by Mrs. Tully exact sketch except Petals (One referred to as O. Rudis is not Euplundixa)



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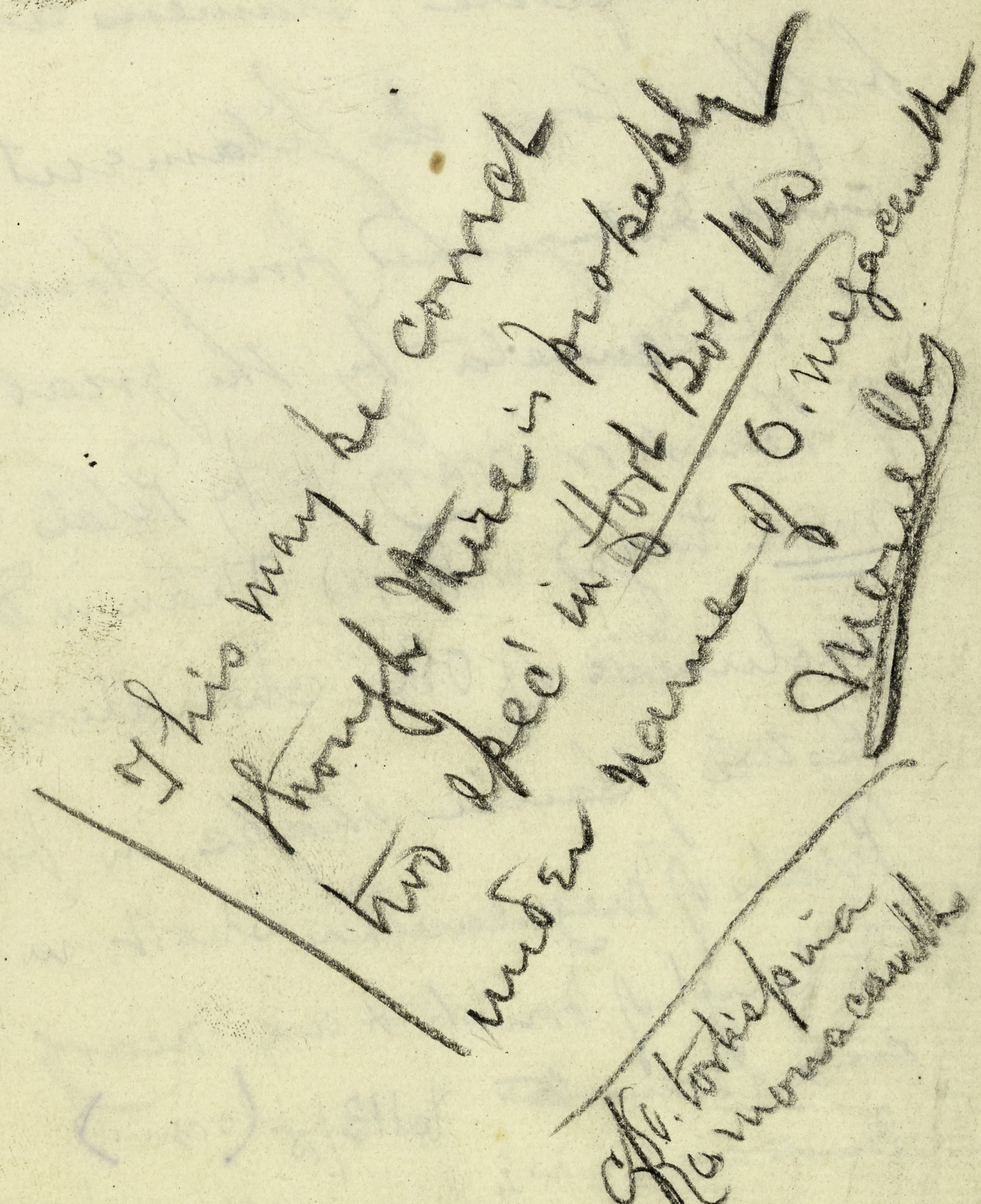

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